



Docket No.: SYS-2068
Internal No.: 4-30598/P1
Serial No.: 09/237,291

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Young et al.)
Serial No.: 09/237,291) Art Unit: 1635
Filed On: January 25, 1999) Examiner: M. Schmidt

8/8
M.J.
2/1/00

For: EXPANDED AND GENETICALLY MODIFIED POPULATIONS OF HUMAN
HEMATOPOIETIC STEM CELLS

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231, on January 21, 2000

Christa Carter
Christa Carter

AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Please enter the following amendment in response to the Office Action dated October 27, 1999.

In the Claims:

18. (amended) A method for genetically modifying human hematopoietic stem cells, comprising:

- contacting a vector comprising a polynucleotide sequence encoding a heterologous gene with a population of hematopoietic stem cells cultured with fibronectin and in the presence of an effective amount of a mpl ligand and a flt3 ligand each ligand provided in a concentration range of about 0.1 ng/mL to about 500 ng/mL, wherein said vector is selected

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